## INTERNATIONAL SEARCH REPORT

1. /IB2005/002826

A. CLASSIFI	ICA ATTHOONS OMF SAMUUUMASYTI MIMAATTITIFER , FOLN11/00 F01N3/22 F01N3/3	0 F02D9/02 F01N	N3/32	
According to	o International Patent Classification (IPC) or to both national classific	cation and IPC		
B FIELDS	SEARCHED			
Minimum do	cumentation searched (classification system followed by classificati FOIN F02D	on symbols)		
Documentation	searched other than minimum documentation to the extent that	such documents are included in the fields s	searched	
Electronic de EPO-Inte	ata base consulted during the international search (name of data trinal , PAJ	pase and, where practical search terms used		
C. DOCUME	NTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication where appropriate of the	relevant passages	Relevant to claim No	
A	US 5 852 929 A (KATO ET AL) 29 December 1998 (1998-12-29) column 1, line 66 - column 2, l: claims 1,3; figures	1,8		
А	EP 0 663 516 A (HITACHI AUTOMOTI ENGINEERING CO., LTD; HITACHI, 1 HITACHI CAR ENG) 19 July 1995 (1 column 3, line 36 - column 4, 1: figures	1,8		
А	US 5 140 810 A (KURODA ET AL) 25 August 1992 (1992-08-25) column 2, line 10 - column 3, 1: figures	ine 29;	1,8	
X Furth	er documents are listed in the continuation of box C	Patent family members are listed	in annex	
"A" document consider filing d "L' document which citation other other file."	document but published on or afterthe international late in which may throw doubts on priority cla tm(s) or is cited to establish the publication date of another or other special reason (as specified) at referring to a noral disclosure, use, exhibition or means the published prior to the international filing date but than the priority date claimed	"T" later document published afterhe international filing date or pToTty date and not in conflict with the application but cited to understand the principle or theory underlying the invention cannot be considered an envel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is to combined with one or more other such document ments, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
ļ	of the international search  January 2006	Date of mailing of the international sea	report	
Name and i	mailing address of the ISA  European Patent Office P B 5818 Patentlaan 2  NL - 2280 HV RUSWIJk	Authorized officer		
]	TeI (+31-70) 340-2040, Tx 3 1 651 epo ni Fax (+31-70) 340-3016	Vedoato, L		

## INTERNATIONAL SEARCH REPORT

Ir\*---ntional Application No
.../IB2005/002826

		/IB2005/002826
C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	DE 103 44 910 Al (GENERAL MOTORS CORP. , DETROIT) 13 May 2004 (2004-05-13) paragraphs '0005! - '0010!; figures	1,8
A	PATENT ABSTRACTS OF JAPAN vol. 015, no. 129 (M-1098), 28 March 1991 (1991-03-28) & JP 03 015619 A (NISSAN MOTOR CO LTD), 24 January 1991 (1991-01-24) abstract	1,8

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
/IB2005/002826

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
US 5852929	A 2	29-12-1998	JР	3602615	B2	15-12-2004
			JP	9021312	<b>A</b>	21-01-1997
EP 0663516	A	19-07-1995	DE	69410427	Dl	25-06-1998
			DE	69410427	Т2	05-11-1998
			JP	7167747	A	04-07-1995
			US	5560199	Α	01-10-1996
US 5140810	Α	25-08-1992	JР	2724387	B2	09-03-1998
			JP	4109023	A	10-04-1992
DE 10344910	A1	13-05-2004	US	2004074453	A1	22-04-2004
JP 03015619	A	24-01-1991	NONE			